

CLAIMS:

1. A method of manufacturing a diffusing reflector comprising coating a substrate with a suspension of metal nanoparticles and annealing the coated substrate at elevated temperature, characterized in that the suspension of metal nanoparticles comprises a silane derivative as additive with at least one methyl group and at least one alkoxy group.
- 5 2. The method of manufacturing a diffusing reflector according to claim 1 wherein the annealing is performed at a temperature above 350°C.
3. A diffusing reflector comprising an annealed substrate coated with a suspension of metal nanoparticles and an additive, characterized in that the additive comprises a silane derivative with at least one methyl group and at least one alkoxy group.
- 10 4. The diffusing reflector of claim 3 wherein the silane derivative is methyl trialkoxysilane, the alkoxy moieties having 1 to 4 carbon atoms.
- 15 5. The diffusing reflector of claim 4 wherein the silane derivative is methyl trimethoxysilane, methyl triethoxysilane, or a mixture thereof.
6. The diffusing reflector of any one of claims 3 to 5 wherein the suspension of the metal nanoparticles comprises <20 vol.% of the silane derivative.
- 20 7. The diffusing reflector of any one of claims 3 to 6 wherein the metal nanoparticles are selected from gold, silver, platinum, rhodium, iridium, palladium, chromium, copper, and aluminum, and mixtures thereof.
- 25 8. The diffusing reflector of any one of claims 3 to 7 wherein the metal nanoparticles are colloidal silver sol particles.

9. A display apparatus comprising at least one substrate, an electro-optical layer, the diffusing reflector of any one of claims 3-8, and at least one electrode.